

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

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In re application of:

SALMAN AKRAM  
WARREN M. FARNWORTH  
ALAN G. WOOD

ART UNIT:

Serial No.:

EXAMINER:

Filing Date: 3/31/2004

FOR: METHOD FOR FABRICATING SEMICONDUCTOR COMPONENTS  
BY FORMING CONDUCTIVE MEMBERS USING SOLDER

Docket No. 97-1363.5

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**INFORMATION DISCLOSURE STATEMENT  
MARCH 31, 2004**

Mail Stop Patent Application  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

The following sections are being submitted for this Information Disclosure Statement:

1.      x         Preliminary Statements
2.      x         FORM PTO SB/08
3.                 Statement As to Information Material to  
                         Examination Not Found in Patents or Publications.
4.      x         Identification of Prior Application in Which Listed  
                         Information Was Already Cited and For Which No Copies  
                         are Submitted Or Need be Submitted.
5.                 Cumulative Patents or Publications.
6.                 Copies of Listed Information Items Accompanying  
                         This Statement.

7. \_\_\_\_\_ Concise Explanation of Non-English Language Listed Information Items.
8. \_\_\_\_\_ Translation(s) of Non-English Language Documents.
9.   x   Identification of Person(s) Making This Information Disclosure Statement.

### Section 1. Preliminary Statements

Applicants submit herewith patents, publications or other information of which they are aware which they believe may be material to the examination of this application and in respect of which there may be a duty to disclose in accordance with 37 C.F.R. §1.56.

The filing of this information disclosure statement shall not be construed as a representation that a search has been made (37 C.F.R. 1.56 (g)), an admission that the information cited is, or is considered to be, material to patentability or that no other material information exists.

### Section 2. Identification of Person(s) Making This INFORMATION DISCLOSURE STATEMENT

The person making this statement is

(a) \_\_\_\_\_ the inventor(s) who signs below

\_\_\_\_\_  
SIGNATURE OF INVENTOR

\_\_\_\_\_  
Name of Inventor

(b)   x   the attorney who signs below on the basis of:

\_\_\_\_\_ the information supplied by the inventor(s)

\_\_\_\_\_ an individual associated with the filing and prosecution of this application (37 CFR 1.56(c))

  x   the information in the attorney's file.

**Section 3. Identification of Prior Application In Which Listed Information Was Already Cited and For Which No Copies are Submitted or Needed Be Submitted.**

This application relies, under 35 U.S.C. 120, on the earlier filing date of application serial no. 09/961,646, filed 09/25/2001, which is a division of serial no. 09/385,606, filed 08/30/1999, Patent No. 6,294,387, which is a division of serial no. 08/993,965, filed 12/18/1997, Patent No. 6,107,109.

The attached list of references were submitted to and/or cited by the Office in these prior applications and, therefore, are not required to be provided in this application.

DATED this 31st day of March, 2004.

Respectfully submitted:



Stephen A. Gratton  
Registration No. 28,418  
Attorney for Applicants

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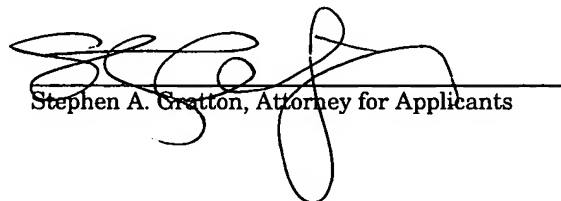
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**"Express Mail" Mailing Label Number ER 456 652 352US**

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March 31, 2004  
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Stephen A. Gratton, Attorney for Applicants

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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**Complete if Known**

Sheet 1 of 4

Application Number	
Filing Date	March 31, 2004
First Named Inventor	SALMAN AKRAM
Art Unit	
Examiner Name	
Attorney Docket Number	97-1363.5

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
	A	US- 5,046,239	09/10/1991	Miller	
	B	US- 5,063,177	11/05/1991	Geller et al.	
	C	US- 5,172,050	12/15/1992	Swapp	
	D	US- 5,222,014	06/22/1993	Lin	
	E	US- 5,229,647	07/20/1993	Gnadinger	
	F	US- 5,236,551	08/17/1993	Pan	
	G	US- 5,249,450	10/05/1993	Wood et al.	
	H	US- 5,404,044	04/04/1995	Booth et al.	
	I	US- 5,420,520	05/30/1995	Anschei et al.	
	J	US- 5,426,072	06/20/1995	Finnila	
	K	US- 5,483,741	01/16/1996	Akram et al.	
	L	US- 5,484,647	01/16/1996	Nakatani et al.	
	M	US- 5,487,999	01/30/1996	Farnworth	
	N	US- 5,528,080	06/18/1996	Goldstein	
	O	US- 5,541,525	07/30/1996	Wood et al.	
	P	US- 5,557,844	09/24/1996	Bhatt et al.	
	Q	US- 5,578,526	11/26/1996	Akram et al.	
	R	US- 5,592,736	01/14/1997	Akram et al.	
	S	US- 5,607,818	03/04/1997	Akram et al.	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				

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SignatureDate  
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Sheet 2

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		Number-Kind Code <sup>2</sup> (if known)			
	T	US- 5,633,122	05/27/1997	Tuttle	
	U	US- 5,634,267	06/03/1997	Farnworth et al.	
	V	US- 5,674,785	10/07/1997	Akram et al.	
	W	US- 5,686,317	11/11/1997	Akram et al.	
	X	US- 5,716,218	02/10/1998	Farnworth et al.	
	Y	US- 5,739,585	04/14/1998	Akram et al.	
	AA	US- 5,781,022	07/14/1998	Wood et al.	
	AB	US- 5,783,461	07/14/1998	Hembree	
	AC	US- 5,783,865	07/21/1998	Higashiguchi et al.	
	AD	US- 5,796,590	08/18/1998	Klein	
	AE	US- 5,801,452	009/01/1998	Farnworth et al.	
	AF	US- 5,815,000	09/29/1998	Farnworth et al.	
	AG	US- 5,834,945	11/10/1998	Akram	
	AH	US- 5,869,974	02/09/1999	Akram et al.	
	AI	US- 5,870,289	02/09/1999	Tokuda et al.	
	AJ	US- 5,876,580	03/02/1999	Lykins	
	AK	US- 5,878,485	03/09/1999	Wood et al.	
	AL	US- 5,896,036	04/20/1999	Wood et al.	
	AM	US- 5,915,977	06/19/1999	Hembree et al.	

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Sheet **3**of **4****Complete if Known**

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Attorney Docket Number	97-1363.5

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		Number-Kind Code <sup>2</sup> (if known)			
	AN	US- 5,929,647	07/17/1999	Akram et al.	
	AO	US- 5,931,685	08/03/1999	Hembree et al.	
	AP	US- 5,936,847	08/10/1999	Kazle	
	AQ	US- 5,952,840	09/14/1999	Farnworth et al.	
	AR	US- 5,962,921	10/05/1999	Farnworth et al.	
	AS	US- 6,013,948	01/11/2000	Akram et al.	
	AT	US- 6,040,702	03/21/2000	Hembree et al.	
	AU	US- 6,107,109	08/22/2000	Akram et al.	
	AV	US- 6,107,119	08/22/2000	Farnworth et al.	
	AW	US- 6,114,240	09/05/2000	Akram et al.	
	AX	US- 6,162,997	12/19/2000	Memis	
	AY	US- 6,294,837 B1	09/25/2001	Akram et al.	
	AZ	US- 6,353,328 B2	03/05/2002	Akram et al.	
	BA	US- 6,356,098 B1	03/12/2002	Akram et al.	
	BB	US- 6,362,637 B2	03/26/2002	Farnworth et al.	
	BC	US- 6,400,172 B1	06/04/2002	Akram et al.	
	BD	US- 6,417,685 B1	07/09/2002	Akram et al.	
	BE	US- 6,437,591 B1	08/20/2002	Farnworth et al.	
	BF	US- 6,451,624 B1	09/17/2002	Farnworth et al.	

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		Filing Date	March 31, 2004		
		First Named Inventor	SALMAN AKRAM		
		Art Unit			
		Examiner Name			
Sheet	4	of	4	Attorney Docket Number	97-1363.5

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	BG	T. R. ANTHONY. "Forming Electrical Interconnections Through Semiconductor Wafers", American Institute of Physics, 1981, pgs 5340-5349.	

Examiner Signature		Date Considered	
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**March 31, 2004**

MAIL STOP PATENT APPLICATION  
Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450


Sir:

The citations listed on the accompanying Form PTO/SB/08, copies attached, may be material to the examination of the subject application and are therefore submitted in compliance with the duty of disclosure defined in 37 CFR §§1.56, 1.97 and 1.98.

This Information Disclosure Statement under 37 CFR §§1.56, 1.97 and 1.98 is not to be construed as a representation that a search has been made, that additional material to the examination of this application does not exist, or that any one or more of these citations constitutes prior art under 35 USC §102.

It is requested that the above citations be made of record, if appropriate, in the prosecution of this application.

Respectfully submitted:

  
\_\_\_\_\_  
Stephen A. Gratton, Registration No. 28,418  
Attorney of Record

2764 South Braun Way  
Lakewood, CO 80228  
Telephone: 303 989 6353

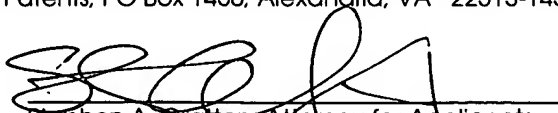
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Stephen A. Gratton, Attorney for Applicants



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Substitute for form 1449/PTO  <h2 style="text-align: center; margin: 0;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</h2> <p style="text-align: center; margin: 0;"><i>(Use as many sheets as necessary)</i></p>	<h3 style="text-align: center; margin: 0;">Complete if Known</h3> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Application Number</td> <td></td> </tr> <tr> <td>Filing Date</td> <td>March 31, 2004</td> </tr> <tr> <td>First Named Inventor</td> <td>SALMAN AKRAM</td> </tr> <tr> <td>Art Unit</td> <td></td> </tr> <tr> <td>Examiner Name</td> <td></td> </tr> <tr> <td>Attorney Docket Number</td> <td>97-1363.5</td> </tr> </table>	Application Number		Filing Date	March 31, 2004	First Named Inventor	SALMAN AKRAM	Art Unit		Examiner Name		Attorney Docket Number	97-1363.5
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Sheet <b>1</b> of <b>1</b>													

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	C	US- 6,372,624 B1	04/16/2002	Farnworth et al.	
	D	US- 6,589,594 B1	07/08/2003	Hembree	
	E	US- 6,620,731 B1	09/16/2003	Farnworth et al.	
	F	US- 6,637,638 B1	10/28/2003	Farnworth et al.	
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